

The Study on collection, Recycling and Disposal of Ardebil Municipal Solid Wastes Situation

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Abstract

Background and Aims: The process of collection, recycling and disposal of municipal solid wastes is the most important factor of solid wastes management. Improper operations in this regard may cause environmental pollution and threatening health of society more over spending costs. The research was completed in order to determine the collection, recycling and disposal of Ardebil municipal solid wastes situation and providing of the optimum solutions in 2010-2011.

Method : In this descriptive (Sectional) research ,data were collected through observation of the current status of the process of collection,recycling and disposal of Ardebil municipal solid wastes,interview,questionnaire completion ,collecting of the first data from different resources, physical analysis of solid wastes and were analysed.

Results:Ardebil municipal solid wastes production per capita was about 795 g . The main elements of solid wastes from the weigh percent points was about 62.35%- 73.12%.The density amount was about 189.20 – 250 kg/m³ . Allocation of temporary places in the city,using improper collection equipment by the municipality,environmental pollution,and non–observing safety points by municipality workers were the important initial finding of the research.

The obtained results from the questionnaire completion in one of the urban zone showed that about 91.43% of sources of producing solid wastes in the zone were related to residential houses. 50.72% of families used simple plastic ashcan with garbage bag for temporary waste storing in solid waste production source.84.34% of families put their solid wastes in front of their house. 96% of families were unaware of the existence of special waste in their garbage. 59% of families were dissatisfied with the municipality operations and 81.89% of them do not execute wastes separation plans at the source place.

The medicine waste with municipal solid waste collecting and disposed.The transfer station hadn't enough equipments . The another findings were not being of suitable plan or program for solid waste recycling and non-hygienic

separation of some garbage elements by people ,non-preparation of the landfill and insufficient equipments and dumping of waste in landfill place.

The separation plan from origin or starting point, reuse of the dry residues, changing of wet residues to fertilizer(composting) and landfill of the remained residues as the first subject in the environmental impact assessment of Ardabil municipal solid wastes determined with checklists.

Conclusion:The process of collection,recycling and disposal of Ardabil municipal solid wastes is not appropriate in respect of various indicators and needs basic changes in scientific,cultural and environmental fields.

Key words:Collection , Recycling , Disposal , Solid waste, Ardebil